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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,850	09/30/2003	Nicholas M. Ryan	2222.5440000	3054
26111 7590 02/01/2011 STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005				
EXAMINER				
PALIWAL, YOGESH				
ART UNIT		PAPER NUMBER		
2435				
MAIL DATE		DELIVERY MODE		
02/01/2011		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/676,850

Applicant(s)

RYAN, NICHOLAS M.

Examiner

YOGESH PALIWAL

Art Unit

2435

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 November 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 and 26-34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 and 26-34 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-945)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 11/16/2010
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

- Applicant's amendment filed on 11/16/2010 has been entered. Applicant has amended claims 1, 6, 10, 16, 26 and 29-31. Currently claims 1-22 and 26-34 are pending in this application.

Response to Arguments

Applicant's arguments with respect to claims 1, 6, 10, 16, 26, and 29-34 have been considered but are moot in view of the new interpretation of Linehan reference. Please note that applicant has amended claim such as the claim language now require access rules to be encrypted along with the document key in the header wherein access rules are configured to further protect the document key. In view of this amendment, examiner is now interpreting message authentication check (see, Fig. 8) as access rules because it is encrypted in the header along with the document key (see, Column 8, line 57-65, "*An example of a file header is shown in FIG. 8 and contains the file encryption key for the file, itself encrypted under a control key (defined below). The header also contains ... message authentication check field that is appended to the header and is encrypted under the same control key.*"). Furthermore message authentication check is configured to protect document key (see, Column 8, lines 57-65, "The entire file header is "protected" against modification by a message authentication check field that is appended to the header and is encrypted under the same control key" and also Column 9, lines 45-50, "The Personal Key Server uses the control key index number in the header to lookup the control key in the Personal Key Database. The Personal Key Server then uses the control key to validate the message authentication check field; if it is invalid, the

Personal Key Server rejects the access request.”). Note: since the validity of the message authentication code is required prior to the decryption of document key, it can be seen as message authentication code further protecting the document key. Therefore, the rejection is maintained.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baltzley (US 6,292,895 B1), hereinafter “Baltzley” in view of Angelo et al. (US 5,923,754), hereinafter, “Angelo”, and Batten-Carew et al. (US 6,603,857 B1), hereinafter “Batten-Carew” and further in view of Linehan et al. (US 5,495,533), Hereinafter, “Linehan”.

Regarding **Claim 1**, Baltzley discloses a file security system for restricting access to electronic files, said file security system comprising:

a key store configured to store a plurality of cryptographic key pairs, wherein the cryptographic key pairs include a respective public key and a respective private key (see, Fig. 2, Numerals 320, and 325).

an access manager (see Fig. 3, Numeral 220), configured to operatively connect to said key store, configured to determine whether the private key of at least one of the

cryptographic key pairs is permitted to be provided to a requester (see Column 2, lines 41-52 and also Column 5 lines 2-10).

wherein the access manager is configured to require that the requester the private key to access a secured electronic file (see Column 2, lines 51-52), and wherein the secured electronic file was previously secured using the public key of the at least one of the cryptographic key pairs (See Column 2, lines 55-56).

Baltzley directly encrypt the electronic file using the public key and therefore does not teach that a data portion of the secured electronic file was previously secured using a document key and wherein the document key was previously secured by the public key of the cryptographic key pair.

However, hybrid encryption was well-known at the time invention was made. Angelo discloses encrypting the message using a document key and the encrypting the document key using a public key (see, Column 3, lines 13-22).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use, instead of public key directly encrypting the documents in the system of Baltzley, the technique of hybrid encryption as taught by Angelo because encrypting the message with the symmetric algorithm is faster then asymmetric algorithm and using public key just to encrypt the document key reduces the chances for plaintext attacks. In other words, hybrid encryption provides the security of public-key encryption at the same time processing messages faster then asymmetric encryption by using symmetric key for data encryption.

Baltzley does not disclose a cryptographic key that pertains to a predetermined time.

Batten-Carew discloses a method and apparatus for controlling release of time-sensitive information is accomplished by a server that establishes access information for a specific future time as passed (abstract). The method includes at least one of the cryptographic key pairs pertaining to a predetermined time (column 3 lines 40-47); key pairs pertaining to the predetermined time is permitted to be provided to a requester based on a current time (Fig. 3), wherein the requester requires the private key of the at least one of the cryptographic key pairs pertaining to the predetermined time to access a secured electronic file (column 3 lines 48-55), and wherein the secured electronic file was previously secured using the public key of the at least one of the cryptographic key pairs pertaining to the predetermined time (Fig. 1).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Baltzley. One of ordinary skill in the art would have been motivated to do this because the method of Batten-Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

The combination of Baltzley, Angelo, and Batten-Carew discloses encrypting the document with a document key and encrypting the document key with the public key of at least one of the cryptographic key pairs pertaining to the predetermined time. However, the combination does not explicitly disclose encrypted header including the encrypted document key and encrypted access rules for the secured electronic file, the access rules for further protecting the document key.

However, Linehan discloses an encrypted header with encrypted document key (see, Fig. 8, file encryption key) and encrypted access rules (see, Fig. 8, "Message authentication code" and also see, Column 8, line 57-65, "*An example of a file header is shown in FIG. 8 and contains the file encryption key for the file, itself encrypted under a control key (defined below). The header also contains ... message authentication check field that is appended to the header and is encrypted under the same control key.*"), the access rules for further protecting the document key see, Column 8, lines 57-65, "The entire file header is "protected" against modification by a message authentication check field that is appended to the header and is encrypted under the same control key" and also Column 9, lines 45-50, "The Personal Key Server uses the control key index number in the header to lookup the control key in the Personal Key Database. The Personal Key Server then uses the control key to validate the message authentication check field; if it is invalid, the Personal Key Server rejects the access request.". Note: since the validity of the message authentication code is required prior to the decryption of document key, it can be seen as message authentication code further protecting the document key.).

Therefore, it would have been obvious at the time invention was made to a person of ordinary skill in the art to place the document key of the combined system of Baltzley, Angelo, and Batten-Carew into a header and further append access rules as taught by Linehan with document key into the header because "The enhanced mechanism can be applied to protect individual records in database systems by extending such records with a new field containing the header shown in FIG. 8. The header then applies to the particular database record." (see, Linehan, Column 10, lines 7-11). Furthermore it is beneficiary

because "the entire file header is "protected against modification by a message authentication check filed" (see, Linehan, Column 8, lines 57-65).

Regarding **Claim 2**, the rejection of claim 1 is incorporated and Baltzley does not teach an access manager is configured to provide the private key of the at least one of the cryptographic key pairs pertaining to the predetermined time to the requester in response to determining that the predetermined time is earlier than or equal to the current time.

Batten-Carew discloses a system, wherein said access manager only provides the private key of the at least one of the cryptographic key pairs pertaining to the predetermined time to the requester in response to determining that the predetermined time is earlier than or equal to the Current time (Fig. 3).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Baltzley. One of ordinary skill in the art would have been motivated to do this because the method of Batten- Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

Regarding **Claim 3**, the rejection of claim 1 is incorporated and Baltzley further discloses wherein the requester is a client module that is configured to operatively connect to said access manager over a network (see Figs. 3 and 4).

Regarding **Claim 4**, the rejection of claim 1 is incorporated and Baltzley does not disclose a system wherein said document security system further comprises: at least one

client module, said client module assists a user in selecting the predetermined time, and said client module secures the electronic file using the public key of the at least one of the cryptographic key pairs pertaining to the predetermined time so as to provide a time-based access restriction to the electronic file.

Batten-Carew discloses a system wherein a document security system further comprises: at least one client module, said client module configured to select the predetermined time and secure the electronic file using the public key of the at least one of the cryptographic key pairs pertaining to the predetermined time so as to provide a time-based access restriction to the electronic file (Fig. 4).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Baltzley. One of ordinary skill in the art would have been motivated to do this because the method of Batten- Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

Regarding **Claim 5**, the rejection of claim 4 is incorporated and Baltzley does not disclose wherein said client module further assists in unsecuring the secured electronic file by acquiring the private key of the at least one of the cryptographic key pairs that pertaining to the predetermined time from said key store, and then unsecure the secured electronic file using the private key that pertaining to the predetermined time

Batten-Carew discloses a system wherein said client module further assists in unsecuring the secured electronic file by acquiring the private key of the at least one of the

cryptographic key pairs that pertaining to the predetermined time from said key store, and then unsecuring the secured electronic file using the private key of the at least one of the cryptographic key pairs that pertaining to the predetermined time (Fig. 3 and Fig. 4).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Baltzley. One of ordinary skill in the art would have been motivated to do this because the method of Batten- Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

Claims 6-22 and 26-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over En-Seung et al.(US 6,892,306 B1), hereinafter, "En-Seung" in view of Linehan and Batten-Carew.

Regarding **Claims 6, 26 and 29**, En-Seung discloses an apparatus, a corresponding method and a corresponding computer program for controlling release of time-sensitive information, said method comprising:

Identifying an electronic document to be secured, the electronic document having at least a data portion that contains data (see, Column 5, lines 57-61);

generating a access key (see Column 9, lines 9-11);

securing the data portion of the electronic document through use a document key to produce a secured electronic document (see Column 3, lines 14-22 and see Figs. 10 and also Column 5, lines 19-27);

storing the document key in the header portion of the electronic document (see, Column 5, lines 6-8);

securing the header portion of the electronic document through the use of the user key (see, Column 5, lines 6-8)

storing the secured electronic document (see Column 6, lines 54-59).

En-Seung discloses a header portion containing the document key but does not explicitly disclose that the header portion is encrypted and contains both encrypted document key and encrypted access rules wherein the access rules are provided for further protecting the document key.

However, Linehan discloses an encrypted header with encrypted document key (see, Fig. 8, file encryption key) and encrypted access rules (see, Fig. 8, "Message authentication code" and also see, Column 8, line 57-65, *"An example of a file header is shown in FIG. 8 and contains the file encryption key for the file, itself encrypted under a control key (defined below). The header also contains ... message authentication check field that is appended to the header and is encrypted under the same control key."*), the access rules for further protecting the document key see, Column 8, lines 57-65, *"The entire file header is "protected" against modification by a message authentication check field that is appended to the header and is encrypted under the same control key"* and also Column 9, lines 45-50, *"The Personal Key Server uses the control key index number in the header to lookup the control key in the Personal Key Database. The Personal Key Server then uses the control key to validate the message authentication check field; if it is invalid, the Personal Key Server rejects the access request."*. Note: since the validity of the message authentication code is required prior to the

decryption of document key, it can be seen as message authentication code further protecting the document key.).

Therefore, it would have been obvious at the time invention was made to a person of ordinary skill in the art to place the document key of En-Seung into a header and further append access rules as taught by Linehan with document key into the header because "The enhanced mechanism can be applied to protect individual records in database systems by extending such records with a new field containing the header shown in FIG. 8. The header then applies to the particular database record." (see, Linehan, Column 10, lines 7-11). Furthermore it is beneficiary because "the entire file header is "protected against modification by a message authentication check filed" (see, Linehan, Column 8, lines 57-65).

The combination of En-Seung and Linehan discloses user key that encrypt document key and document key in the header that encrypts the contents. However, En-Seung does not explicitly disclose that the user key is a time-based access key.

Batten-Carew discloses a method and apparatus for controlling release of time-sensitive information is accomplished by a server that establishes access information for a specific future time as passed (abstract). Batten-Carew discloses using time-based access key for the predetermined time (Column 3, lines 34-40).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the combined system of En-Seung and Linehan. One of ordinary skill in the art would have been motivated to do this because the method of Batten- Carew would allow time-sensitive information to be released

at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

Regarding **Claims 7 and 27**, Batten-Carew discloses a method wherein the time-based access key has an access time associated therewith (column 3 lines 4-23').

Regarding **Claims 8 and 28**, Batten-Carew discloses a method wherein said method further comprises: storing the time-based access key at a remote key store, and wherein the time-based access key is subsequently retrievable from the remote key store only if the current time equal to or later than the access time associated with the time-based access key (Fig. 1 and Fig. 3).

Regarding **Claim 9**, Batten-Carew discloses a method wherein said method is performed on a client machine that operatively receives the time-based access key from the remote key store over a network (Fig. 1 and column 3 lines 32-35).

Regarding **Claims 10 and 30**, En-Seung discloses a method and a corresponding computer program for restricting access to an electronic document, said method comprising:

Identifying an electronic document (digital information) to be secured, the electronic document to be secured, the electronic document having at least a data portion that contains data (Column 5, lines 57-61);

obtaining a document key (See Column 3, lines 25-28, "temporary validation key");

encrypting the data portion of the electronic document using the document key to produce an encrypted data portion (see Column 3, lines 25-28);

obtaining an access key (See Column 3, lines 14-22, user key);

storing the access key in the header portion (see, Column 5, lines 6-8);

encrypting the document key using an access key to produce an encrypted document key (see Column 3, lines 14-22, temporary validation key in the header is encrypted using user key);

storing the encrypted document key in the header portion (see, Column 5, lines 6-8);

forming a secured electronic document from at least the encrypted data portion and the header (see Figs. 10 and also Column 5, lines 6-8).

storing the secured electronic document (see Column 6, lines 54-59)

En-Seung discloses a header portion containing the document key but does not explicitly disclose that the header portion includes encrypted document key along with encrypted access rules for the electronic document and wherein the access rules are provided for further protecting the document key.

However, Linehan discloses an encrypted header with encrypted document key (see, Fig. 8, file encryption key) and encrypted access rules (see, Fig. 8, "Message authentication code" and also see, Column 8, line 57-65, "An example of a file header is shown in FIG. 8 and contains the file encryption key for the file, itself encrypted under a control key (defined below). The header also contains ... message authentication check field that is appended to the header and is encrypted under the same control key."), the access rules for further protecting the document key see, Column 8, lines 57-65, "The entire file header is "protected" against modification by a message authentication check field that is appended to the header and is encrypted under the same control key" and also Column 9, lines 45-50, "The Personal Key Server uses the control key index number in the header to lookup the control key in the

Personal Key Database. The Personal Key Server then uses the control key to validate the message authentication check field; if it is invalid, the Personal Key Server rejects the access request.”. Note: since the validity of the message authentication code is required prior to the decryption of document key, it can be seen as message authentication code further protecting the document key.).

Therefore, it would have been obvious at the time invention was made to a person of ordinary skill in the art to place the document key of En-Seung into a header and further append access rules as taught by Linehan with document key into the header because “The enhanced mechanism can be applied to protect individual records in database systems by extending such records with a new field containing the header shown in FIG. 8. The header then applies to the particular database record.” (see, Linehan, Column 10, lines 7-11). Furthermore it is beneficiary because “the entire file header is “protected against modification by a message authentication check filed” (see, Linehan, Column 8, lines 57-65).

The combination of En-Seung and Linehan discloses user key that encrypt document key and document key that encrypts the contents. However, En-Seung does not explicitly disclose that the user key is a time-based access key.

Batten-Carew discloses a method and apparatus for controlling release of time-sensitive information is accomplished by a server that establishes access information for a specific future time as passed (abstract). Batten-Carew discloses using time-based access key (Column 3, lines 34-40).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the combined system of

En-Seung and Linehan. One of ordinary skill in the art would have been motivated to do this because the method of Batten- Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

Regarding **Claim 11**, the combination of En-Seung, Linehan and Batten-Carew further discloses wherein encrypting the document key comprises encrypting the document key using a public time-based access key (see Batten-Carew, Column 3, lines 48-64 as combined with Linehan)

Regarding **Claim 12**, the combination of En-Seung, Linehan and Batten-Carew further discloses wherein encrypting the document key comprises encrypting the document key using a time-based access key that has an access time associated therewith (see Batten-Carew, column 3 lines 4-23 and Fig. 2 as combined with Linehan)

Regarding **Claim 13**, the combination of En-Seung, Linehan and Batten-Carew further discloses wherein obtaining a time-based access key comprises obtaining a time-based access key that is available from a remote key store when the current time is equal to or greater than the access time associated with the time-based access key (see Batten-Carew, Fig. 3).

Regarding **Claim 14**, the combination of En-Seung, Linehan and Batten-Carew further discloses obtaining a time-based access key comprises obtaining a time-based access key that specifies an access time as a specified day of a year and further comprising obtaining a different unique time-based access keys for a plurality of different days of the year (see Batten-Carew, Fig. 2).

Regarding **Claim 15**, the combination of En-Seung, Linehan and Batten-Carew further discloses further discloses wherein said method is performed on a client machine that operatively receives the time-based access key from the remote key store over a network (see Batten-Carew, Fig. 1 and Column 3 lines 32-35).

Regarding **Claims 16 and 31**, En-Seung discloses a method and a corresponding computer program for providing a secured electronic document to a requester, the secured electronic document having at least a header portion, having an encrypted document key and access rules, and an encrypted data portion (see, Fig. 10), said method comprising:

obtaining an access key (See Fig. 21A, Numeral S430, and also Column 3, lines 14-22, user key);

decrypting the document key using the time-based access key (see, Column 15, lines 63-67);

En-Seung discloses a header portion containing the document key but does not explicitly disclose that the header portion also includes encrypted access rules that needs to be decrypted wherein the access to the document key being subject to protection by the access rules.

However, Linehan discloses an encrypted header with encrypted document key (see, Fig. 8, file encryption key) and encrypted access rules (see, Fig. 8, "Message authentication code" and also see, Column 8, line 57-65, "*An example of a file header is shown in FIG. 8 and contains the file encryption key for the file, itself encrypted under a control key (defined below). The header also contains ... message authentication check field that is appended to the header and is encrypted under the same control key.*"), the access rules for further

protecting the document key see, Column 8, lines 57-65, "The entire file header is "protected" against modification by a message authentication check field that is appended to the header and is encrypted under the same control key" and also Column 9, lines 45-50, "The Personal Key Server uses the control key index number in the header to lookup the control key in the Personal Key Database. The Personal Key Server then uses the control key to validate the message authentication check field; if it is invalid, the Personal Key Server rejects the access request.". Note: since the validity of the message authentication code is required prior to the decryption of document key, it can be seen as message authentication code further protecting the document key.).

Therefore, it would have been obvious at the time invention was made to a person of ordinary skill in the art to place the document key of En-Seung into a header and further append access rules as taught by Linehan with document key into the header because "The enhanced mechanism can be applied to protect individual records in database systems by extending such records with a new field containing the header shown in FIG. 8. The header then applies to the particular database record." (see, Linehan, Column 10, lines 7-11). Furthermore it is beneficiary because "the entire file header is "protected against modification by a message authentication check filed" (see, Linehan, Column 8, lines 57-65).

The combination of En-Seung and Linehan further discloses:

decrypting an encrypted data portion of the secured electronic document using the document key to produce a non-encrypted data portion (see, Column 16, lines 10-14); and supplying the non-encrypted data portion to the requester (see, Fig. 21B, Numeral S470).

The combination of En-Seung and Linehan discloses user key that encrypt document key and document key that encrypts the contents. However, En-Seung does not explicitly disclose that the user key is a time-based access key.

Batten-Carew discloses a method and apparatus for controlling release of time-sensitive information is accomplished by a server that establishes access information for a specific future time as passed (abstract). Batten-Carew discloses using time-based access key (Column 3, lines 34-40).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the combined system of En-Seung and Linehan. One of ordinary skill in the art would have been motivated to do this because the method of Batten- Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

Regarding **Claim 17**, the combination of En-Seung, Linehan and Batten-Carew further discloses wherein obtaining a time-based access key comprises obtaining a time-based access key is identified by an indicator within a header portion of the secured electronic document (see, En-Seung Column 15, lines 35-51 as modified by Batten-Carew).

Regarding **Claim 18**, the combination of En-Seung, Linehan and Batten-Carew further discloses wherein obtaining a time based access key comprises obtaining a private time-based access key (see Batten-Carew, Column 3, lines 48-64).

Regarding **Claim 19**, the combination of En-Seung, Linehan and Batten-Carew further discloses wherein obtaining a time-based access key comprises acquiring the time-based access key from a server (see Batten-Carew, Fig. 1 and Column 3 lines 32-35).

Regarding **Claim 20**, the combination of En-Seung, Linehan and Batten-Carew further discloses wherein said obtaining of the time-based access key is dependent on a current time (see Batten-Carew, column 3 lines 4-23 and Fig. 2).

Regarding **Claim 21**, the combination of En-Seung, Linehan and Batten-Carew further discloses wherein the time-based access key is associated with an access time, and wherein said obtaining of the time-based access key is permitted when the current time is greater than or equal to the access time (see Batten-Carew, Fig. 3).

Regarding **Claim 22**, the combination of En-Seung, Linehan and Batten-Carew further discloses wherein, obtaining a time-based access key comprises obtaining the time based access key from a server (see Batten-Carew, Fig. 1 and Column 3 lines 32-35).

Claims 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over En-Seung in view of Linehan and Batten-Carew and further in view of Singhal et al. (US 6,851,050 B2), hereinafter "Singhal".

Regarding Claims 32, 33 and 34, the rejections of claims 6, 26 and 29 is incorporated and even though the combination of En-Seung, Linehan and Batten-Carew discloses generating time-based access key for a predetermined time it does not explicitly discloses a step of determining whether a time-based access key is already available for a predetermined time, otherwise generating a time-based access key for the predetermined

time. Batten-Carew is just missing the step of checking to see if the time-based access key is already generated and only generate new time-based access key if one does not exist.

Singhal discloses a condition where prior to generating a key, system check to see the key is already generated and only generates a new key if one does not exist (see Column 18, lines 30-60).

Therefore, it would have been obvious at the time the invention was made to one of ordinary skill in the art to generate, the time-based access key of the combined system of En-Seung, Linehan and Batten-Carew, only if the key doesn't already exist. One of ordinary skill in the art would have been motivated to check this condition prior to generating new time-based access key in a case where sender is sending more than one document and all document are suppose to release on the same time. In such a condition it would be appropriate to simply use the same time-based access key rather than generating multiple time-based access keys for the same predetermined time.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory

period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOGESH PALIWAL whose telephone number is (571)270-1807. The examiner can normally be reached on M-F 9:00 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 5712723859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Y. P./

Examiner, Art Unit 2435

/Kimyen Vu/

Supervisory Patent Examiner, Art Unit 2435